# UT Digital Repository: Meadows Foundation Funded Projects
# Collection Contents, 2/27/2013

| COURSE/PROJECT | PRINCIPALS |
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| Foundations of Sustainable Design in Architecture and Urban Planning | Wilfried Wang, Werner Lang |

**SUBMISSIONS**

| UTDR UID | Creator(s) | Title | Description |
|---|---|---|---|
| http://hdl.handle.net/2152/11695 | Lisa Storer, Chia-Hui Yang | Arup's environmental strategies: engineering + sustainability + architecture. Based on a lecture by Michael Sweeney. | This paper looks at SPeAR (Sustainable Project Appraisal Routine), the standard created by the architectural design firm Arup to benchmark sustainability in architectural projects. It examines the practical application of SPeAR in evaluating three projects: the San Francisco Federal Building, the California Academy of Sciences, and Dongtan, a planned Eco-City to be constructed near Shanghai, China. Student paper; 1 PDF document file. |
| http://hdl.handle.net/2152/13323 | Robert N. Astrich, Briana Walters | Flows | This paper considers architecture as a a series of overlapping processes and flows that make up the lifecycle of an architectural project. It analyzes this lifecycle in the context of five primary flows-- raw materials, water, energy, organisms, and information-- which result in secondary flows such as waste, emissions and money. Awareness of these flows contributes to a greater understanding of the sustainability of architecture. Student paper; 1 PDF document file. |
| http://hdl.handle.net/2152/11694 | Jenna Kamholz, Lisa Storer | Regional and historic standards of comfort | A look at comfort, and the differences in our definitions and expectations of comfort through history and across cultures. This paper also considers the impact of technological advances in air conditioning on the perception of comfort. Student paper; 1 PDF document file. |
| http://hdl.handle.net/2152/13088 | Ross Galloway, Bhujon Kang | Space node place | What makes a place a place? This paper examines space and nodes as concepts and discusses how they play into the way the human mind constructs a sense of place. It also discusses the importance of these concepts in the design of urban spaces and transportation hubs. Based on a lecture by Niklaus Kohler. Student paper; 1 PDF document file. |
| http://hdl.handle.net/2152/11697 | Natalie Ward | Austin climate data | An overview of the climate conditions that impact on the energy efficiency of construction projects in Austin, Texas. Data is presented on various factors, including temperature, precipitation, daylight, and wind. Student paper; 1 PDF document file. |

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| UTDR UID | Creator(s) | Title | Description |
|---|---|---|---|
| http://hdl.handle.net/2152/11696 | Meredith Brown, Sky Lutz-Carrillo | Dematerialization: a changing paradigm in architecture | A look at dematerialization, the reduction in the amount of materials required for various purposes, with a focus on how it applies sustainable architecture. This paper presents the case that society is adopting "a new paradigm" based on awareness of the planet's limited resources, and describes how basic decisions in the design of architectural projects can reduce material consumption over many years. Based on a presentation by Niklaus Kohler. Student paper; 1 PDF document file. |
| http://hdl.handle.net/2152/11699 | Robert N. Astrich, Alex Morris, Briana Walters | Daylight performance in mid/large buildings: basics, strategies, technologies | An examination of the lighting requirements of mid- to large-scale building projects, with a focus on the utilization of natural daylight. The paper considers the sorts of tasks to be performed in different rooms/sections of the building, as well as psychological and biological effects, and discusses strategies for optimizing natural light conditions. Five projects are given as case studies: the Arup Campus in Solihull, England (Arup); World's End School (Architects' Co-Partnership); the Administration Building in Wiesbaden, Germany (Herzog + Partner); the Nasher Gallery in Dallas, TX (Renzo Piano); and the Chelsea Club in London, England (Fletcher Priest). Student paper; 1 PDF document file. |
| http://hdl.handle.net/2152/11698 | Cody Fithian, Ashleigh Powell | Cultural aspects of sustainable development | The history of humanity's struggle for survival has produced a mindset that values production and consumption. But it has become increasingly obvious that this mindset has become outdated as the planet's population threatens to outgrow and deplete the world's resources. This is true for both material resources and cultural resources, or "social capital": as world economies become more global, cultural values are lost to commodification and displacement. This paper examines these problems and possible strategies for shifting to a new paradigm of sustainability. Based on research by Niklaus Kohler and his team. Student paper; 1 PDF document file. |

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| http://hdl.handle.net/2152/13086 | Cayce Bean, Randy Maddox, Natalie Ward | Sustainable cities: 21st century strategies for inhabitable urban regions | An examination of strategies for limiting the conditions that will cause urban areas to reach a point of unsustainability. These conditions include urban sprawl, infrastructure (particularly modes of transportation), and affordable housing. Strategies discussed include green belts and urban growth boundaries (UGBs), alternate transportation methods, and low income and mixed income development, among others. Based on a lecture by Ricky Burdett. Student paper; 1 PDF document file. |
| http://hdl.handle.net/2152/13087 | Ross Galloway, Meredith Brown | Thermal performance in mid/large buildings | This paper presents on overview of several vernacular and passive strategies as an alternative to the standard HVAC system. It examines the performance demands of large buildings in Austin, Texas and addresses several potential methods for cooling and dehumidifying buildings, including: preventing solar heat gain, ventilation strategies, ground cooling, convection cooling, desiccant cooling, evaporative cooling, and use of multiple zones. Student paper; 1 PDF document file. |
| http://hdl.handle.net/2152/13321 | Bhujon Kang, Sky Lutz-Carrillo | Indirect/passive air-flow systems | An examination of air-flow systems and how they may be utilized in sustainable architectural design to improve energy conservation and the comfort and health of occupants. This paper looks at various forms of natural ventilation and explores design principles for maximizing the effectiveness of air-flow for a building. Renzo Piano's Cultural Centre in New Caledonia and the Swiss Re Headquarters building by Norman Foster are briefly examined as case studies of these principles. Student paper; 1 PDF document file. |
| http://hdl.handle.net/2152/13322 | Randy Maddox, Matthew Montry | Traditional and innovative cooling systems: Energy efficient, alternative strategies for thermal comfort | This paper describes some fundamental features of conventional AC technology, and explores innovative strategies and AC system types that use alternative forms of energy and/or are designed for greater energy efficiency. Student paper; 1 PDF document file. |

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|---|---|---|---|
| http://hdl.handle.net/2152/13324 | Jenna Kamholz, Matthey Montry | Indoor air quality | Recent studies have shown that indoor air pollutant levels are often greater than the outdoor levels. This paper looks at types of pollutants and their causes, and describes various methods for improving indoor air quality. Student paper; 1 PDF document file. |
| http://hdl.handle.net/2152/13325 | Cody Fithian, Andrea Sheets | Green building materials: determining the true definition of green | As of fall 2009, there are over fifty regional and national green labeling programs throughout the United States. Each of these have similar yet quite different versions of rating systems and qualifying characteristics that they look for in a green building. This paper looks at four of the most prominent programs-- LEED, EnergyStar, Green Globe, and Green Seal--and discusses the methods and limitations of each; it also looks at some building materials that are occasionally marketed as eco-friendly, and analyzes how they measure up for overall "greenness". Student paper; 1 PDF document file. |
| http://hdl.handle.net/2152/13326 | Alex Morris, Andrea Sheets | Geothermal systems: system types, applicability and environmental impacts | Geothermal energy is often overlooked during discussions of green and sustainable energy sources. But due recent advances in technology and the rising cost of other energy sources, research now shows that geothermal systems may be one of the most cost-effective and environmentally friendly options. This paper discusses the technology of geothermal energy for heating and cooling buildings, its cost advantages, and its environmental effects (positive and negative). Based on research by Bruce L. Cutright. Student paper; 1 PDF document file. |
| http://hdl.handle.net/2152/13982 | Cayce Bean, Chia-Hui Yang | Standards in sustainable landscape architecture | This paper examines how the principles of sustainability may be applied to the field of landscape architecture. It gives a brief history of the Sustainable Sites Initiative and the guidelines and benchmarks developed by that organization to measure the long-term environmental and social impact of landscape design. The paper then goes on to discuss strategies for water management, use of vegetation, and site design for sustainable landscape architecture. Student paper; 1 PDF document file. |

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| http://hdl.handle.net/2152/13980 | Michael Boduch, Warren Fincher | Standards of human comfort: relative and absolute | An examination of the factors that affect the quality of comfort in an environment, including temperature, lighting, humidity, and air quality. The paper also considers variability of individual and cultural perceptions of comfort in determining how designers might create optimal living or work spaces. Student paper; 1 PDF document file. |
| http://hdl.handle.net/2152/13981 | Michael Boduch, Warren Fincher | Time | This paper investigates the nature of time with a particular emphasis on how humans relate to time, both as an abstract concept and as a phenomenon integral to existence. It examines how we measure time, how time factors into economic decisions and cost-benefit analysis, and how understanding these concepts can inform questions of sustainability in architecture. Student paper; 1 PDF document file. |
| http://hdl.handle.net/2152/14605 | Niklaus Kohler | Lecture 1: introduction | In his Introduction, Dr. Kohler presents a brief overview of his research and ideas, gives an outline of the seminar and its objectives, and discusses the fundamental concepts that inform the seminar's approach to sustainable architectural design: space, place, nodes, time, and flows. Introduction to a series of 5 lectures: video (WMV file) and accompanying slides (PDF document). |
| http://hdl.handle.net/2152/14603 | Niklaus Kohler | Lecture 1, part 1: the railway station: a tower of Babel | Dr. Kohler looks at the railway station's importance in 19th century Europe in terms of its impact on social interaction, people's concepts of time, and economic and technological change. Over the years, the railway station's role has diminished to the point that it has been called an "endangered species". The first part (of three parts) of the first of a series of five lectures; video (WMV file). |
| http://hdl.handle.net/2152/14604 | Niklaus Kohler | Lecture 1, part 2: foundations of sustainable design: railway stations between place and node | Dr. Kohler presents a discussion of the concepts of space, place, and nodes, and how these concepts play into our notions of urban environment and transportation design. The second part (of three parts) of the first of a series of five lectures; video (WMV file) and accompanying slides (PDF document). |

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| http://hdl.handle.net/2152/14606 | Niklaus Kohler | Railway stations: the power of place (lecture - part 3 - video) | Dr. Kohler presents images of railway stations around the world to provide context for considering railway station design. The third part (of three parts) of the first of a series of five lectures; video (WMV file). |
| http://hdl.handle.net/2152/14607 | Niklaus Kohler | Lecture 2: Life cycle assessment, certification and life cycle management | In this lecture, Dr. Kohler examines how architects and policy makers evaluate the overall impact of architectural projects on the environment. Dr. Kohler emphasizes the complications that arise when we attempt to convert the holistic concept of sustainable development into quantifiable criteria for use in ratings systems. He discusses Life Cycle Analysis— which considers the resources consumed by a building project from the harvesting/manufacturing of the raw materials through the design and construction of the building, through the operation and maintenance of the building over time, and finally to the building's eventual demolition and deconstruction— and he explains how Building Information Modeling (BIM) is used to create a comprehensive estimate of the impact of an architectural project over its lifetime. The second in a series of five lectures; video (WMV file) and accompanying slides (PDF document). |
| http://hdl.handle.net/2152/14608 | Niklaus Kohler | Lecture 3: Foundations of sustainable design: The time of railway stations | In this lecture, Dr. Kohler briefly discusses different philosophical concepts of time, with a particular emphasis on theories of time as a social framework. He then applies these considerations of time as an abstract concept and as a phenomenon integral to human existence to issues of sustainable architecture, and specifically to problems surrounding the design of a high-speed railway hub. The third in a series of five lectures; video (WMV file) and accompanying slides (PDF document). |

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| http://hdl.handle.net/2152/14609 | Niklaus Kohler | Lecture 4: Foundations of sustainable design: Cultural aspects of sustainable development | Dr. Kohler discusses culture as a form of "intangible capital", and the difficulties in trying to preserve cultural resources in the face of many factors of social change, including globalization and a growing population attempting to cope with depletion and scarcity. He discusses ways that societies may deal with these difficulties, and how architects may consider issues of cultural conservation in the context of sustainable architectural design. The fourth in a series of five lectures; video (WMV file) and accompanying slides (PDF document). |
| http://hdl.handle.net/2152/14610 | Niklaus Kohler | Lecture 5: Flows - railway stations | In this lecture, Dr. Kohler looks at sustainability in architecture through the lens of flow theory. He analyzes various urban environments and individual buildings as flow systems to focus on their net environmental impact, and asks students to apply these principles to developing an input-output flow model for a proposed high-speed railway station. The fifth in a series of five lectures; video (WMV file) and accompanying slides (PDF document). |
| http://hdl.handle.net/2152/14942 | Ricky Burdett | Sustainable cities | Ricky Burdett is Professor of Urban Studies at the London School of Economics and Political Science (LSE) and director of LSE Cities and the Urban Age programme. In this lecture he gives a general overview of the ongoing increase in the population density of urban areas and of global energy consumption, followed by a look at some specific cases of housing and urban development projects in South America that help address problems of urban crowding. Burdett concludes with a look at London and his work as Chief Adviser on Architecture and Urbanism for the London 2012 Olympics. Lecture slides (PDF document). |

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| http://hdl.handle.net/2152/14612 | Werner Lang, Wilfried Wang, Sefan Bader | Transit oriented development | Students in the School of Architecture's Fall 2009 Advanced Design Studio on Sustainable Architecture were asked to design a railway station that would serve as a central hub for the Austin metro area's proposed high-speed rail service. This document is a compiled selection of plans, diagrams and virtual 3-D renderings created by the studio participants. As instructor and editor Wilfried Wang says in his introduction, these proposals address the project with "a boldness and realistic utopianism that is necessary to sustain the ensuing extensive and aggravated public debates". Document, 138 pages, with illustrations (PDF file). |

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| ARC334L: Environmental Controls II | Michael Garrison, Steven Matten |

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| UTDR UID | Creator(s) | Title | Description |
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| http://hdl.handle.net/2152/13630 | Michael Garrison, Steven Matten | Integrating energy performance software into Arc 334L; Environmental Controls II | This paper contains reviews of various software packages designed to allow architects and engineers to analyze the functional and energy performance of a building. The reviews were conducted to facilitate the integration of new energy performance software into the Environmental Controls II course (ARC334L), offered by the UT School of Architecture. The applications considered include: gbXML, Manual J, Rhvac, Google SketchUp solar shading analysis, eQUEST, and Rainwater Calculator (for analyzing rainwater harvesting systems). Project report (PDF document, 1 file). |

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| General documentation for Meadows sustainability education grant | Elizabeth Mueller |

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| UTDR UID | Creator(s) | Title | Description |
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| http://hdl.handle.net/2152/15465 | Elizabeth Mueller, Frances Kellerman | Meadows Foundation Curriculum Grant Symposium | The UT School of Architecture received grant funding from the Meadows Foundation to update the curricula for twelve core architecture and seminar courses to focus on sustainable design. In this symposium, the School of Architecture faculty who received funding for projects as part of this overall effort give brief presentations on their individual projects, and discuss the impact and implications of their work on the school's educational mission. Video recording of symposium (three WMV video files) with schedule of speakers (one PDF document). |

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| Interdisciplinary Studio: Retrofitting Suburbia | Steven Moore, Barbara Brown Wilson |

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| UTDR UID | Creator(s) | Title | Description |
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| http://hdl.handle.net/2152/17646 | Steven Moore, Meghan Kleon | Renovating Suburbia | A study in community sustainability by the UT Austin School of Architecture in collaboration with the George Washington Carver Museum and Cultural Center. The study is documented in three phases, with each phase outlined in a set of exhibit boards. Phase 1: The Scale of the Home. "We begin by looking at suburban homes from a 'supply-side' view in which homes are consumer products that can be designed to be more efficient." Phase 2: The Scale of the Region. "To more fully address sustainability, we then move to a 'demand-side' view to strategize how to reduce overall system demand and enhance environmental community conditions via infrastructure." Phase 3: The Scale of the Neighborhood. "Finally, an 'effect-side' view looks at how neighborhood-level design affects existing and future residents of Manor by integrating density, infrastructure, and increased social and architectural diversity." Three PDF documents, with each document representing a set of exhibit boards. |

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| Environmental Remediation in Latin American Cities | Fernando Lara |

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| http://hdl.handle.net/2152/17687 | Fernando Lara | Architect Éolo Maia: Edifício Rainha da Sucata | Built in 1982, designed by Éolo Maia and Sylvio Podestá. Officially called The Touristic Support Center building, it was given the nickname Rainha da Sucata ("Queen of Scrap"). The building currently houses the Museu de Mineralogia Professor Djalma Guimarães. Belo Horizonte, Brazil. Photographs by Fernando Lara, 7/14/2010. 4 digital image files (JPEG). |
| http://hdl.handle.net/2152/17686 | Fernando Lara | Architects Mendes da Rocha: Museum of Mines and Metal | Situated on the Praça da Liberdade (Liberty Square) Cultural Corridor, the museum occupies the Prédio Rosa building where the headquarters of the State Department of Education were formerly located. Renovation by Paolo Mendes da Rocha and Pedro Mendes da Rocha, 2010. Belo Horizonte, Brazil. Photographs by Fernando Lara, 7/14/2010. 6 digital image files (JPEG). |
| http://hdl.handle.net/2152/17648 | Fernando Lara | Architect Éolo Maia: Barca do Sol Residential Building | Condominium complex, designed by Éolo Maia and Márcio Lima, built in 1976. Belo Horizonte, Brazil. Photograph by Fernando Lara, 7/14/2010. 5 digital image files (JPEG). |
| http://hdl.handle.net/2152/17647 | Fernando Lara | Architect Humberto Hermeto: Villa Rizza | Original villa built in the 1920s; expanded to create a bar and restaurant in 2005. Belo Horizonte, Brazil. Photograph by Fernando Lara, 7/14/2010. 61 digital image files (JPEG). |
| http://hdl.handle.net/2152/18225 | Fernando Lara | M3 Arquitetura, Vazio S/A, Silvio Todeschi, Ana Assis, Alexandre Campos, MACh Arquitetos: Third Water Park (H3O) at Favela da Serra | The Third Water Park (H3O) was designed as an upgrade to the densely populated Favela da Serra neighborhood. This intervention project began in 2007. The park was never finished as designed (as of 2012); nevertheless, it was awarded "best institutional building" in Arquitetura & Construção magazine's "The Best of Architecture 2011". Belo Horizonte, Brazil. Photographs by Fernando Lara, 7/14/2010. 31 digital image files (JPEG). |
| http://hdl.handle.net/2152/18226 | Fernando Lara | Interventions at Favela Prado Lopes | A collection of images showing the process of re-building favela Prado Lopes, a notoriously violent neighborhood northeast of Belo Horizonte, Brazil. Photographs by Fernando Lara, 7/19/2010. 61 digital image files (JPEG). |

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| *re*-Design IV Studio | Nichole Wiedemann |

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| UTDR UID | Creator(s) | Title | Description |
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| http://hdl.handle.net/2152/18555 | Chris Riley | Re-envisioning Airport Boulevard | Austin City Councilman Chris Riley presents the case for redeveloping the section of Austin's Airport Boulevard between N. Lamar Boulevard and I-35 as a pedestrian-friendly mix of residences and commercial establishments. Video (MPEG-4 file) and accompanying slides (PowerPoint document). |
| http://hdl.handle.net/2152/18610 | Frederick R. Steiner | Urban Ecological Design Process / NOOS: Not Only One Solution | Dr. Steiner discusses concepts and models of the planning process applied by other practitioners of urban design, then launches into an introduction to the approach to the planning process that he and co-author Danilo Palazzo put forward in their book Urban Ecological Design: a Process for Regenerative Places (Washington, DC: Island Press, 2011). This lecture was recorded shortly before the book's release in 2012. |

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| Study in Italy Program: Reading the Sustainable Italian City | Smilja Milovanovic-Bertram |

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| UTDR UID | Creator(s) | Title | Description |
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| http://hdl.handle.net/2152/19614 | Smilja Milovanovic-Bertram, Johanna Hauser | How to | A broad overview of the issues involved in designing sustainable buildings, and of how various construction methods and design features are used in sustainable architecture. Topics covered are: envelope, lighting, heating, cooling, energy production, water and waste, and LEED rating categories. |
| http://hdl.handle.net/2152/19615 | Smilja Milovanovic-Bertram | Reading the Italian City | Students in the UT School of Architecture's Study in Italy program were assigned to design a new community center for host city Castiglion Fiorentino. This slideshow presents a selection of student works, including models and project sketches of four different designs. Lecture slides (PowerPoint). |

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| Study in Italy Program: Reading the Sustainable Italian City (continued) | Smilja Milovanovic-Bertram |

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| UTDR UID | Creator(s) | Title | Description |
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| http://hdl.handle.net/2152/19613 | Smilja Milovanovic-Bertram, Johanna Hauser | Case studies | The overall topic of sustainable architecture is examined by looking at six "camps" within the sustainability movement, each of which emphasizes a different viewpoint and set of goals for sustainable design. Case studies are included to illustrate each approach. The lecture covers the following camps: 1. Eco-Technic Camp [Case study: Kunsthaus Bregenz (Peter Zumthor; Bregenz, Austria)] [Case study: Zollverein School of Management and Design (SANAA; Essen, Germany)] 2. Eco-Medical Camp [Case study: Vidar Institute (Erik Asmussen; Järna, Sweden)] 3. Eco-Centric Camp [Case study: Rauch Residence (Roger Boltshauser, Martin Rauch; Walgau Valley, Germany)] 4. Eco-Aesthetic Camp [Case study: 290 Mulberry (SHoP Architects; New York, NY)] 5. Eco-Cultural Camp [Case study: Community Center, Raggal (Johannes Kaufmann; Great Walser Valley, Germany)] 6. Eco-Social Camp [Case study: Housing Development Sandgrubenweg (Gerhard Hörburger; Bregenz, Austria)] [Case study: Charles Hostler Student Recreation Center (VJAA; The American Univeristy of Beirut)]. Lecture slides (PowerPoint). |
| http://hdl.handle.net/2152/19427 | Smilja Milovanovic-Bertram | The High Line, New York, NY | Collection of architectural photographs, 120 JPEG image files total. Photographs taken on 5/31/2012. 120 digital image files (JPEG). |
| http://hdl.handle.net/2152/19426 | Smilja Milovanovic-Bertram | 41 Cooper Square (Cooper Union academic and student services building) | Visual documentation of the Cooper Union Academic and Student Services Building, New York, NY. Designed by Morphosis Architects, Inc., with Gruzen Sampton, LLP (associate architects). Designed 2004-2006; built 2006-2009. Photographed by Smilja Milovanovic-Bertram on June 15, 2011 and May 29, 2012. The building has been LEED certified with a Platinum (highest) rating. 141 digital image files (JPEG). |
| http://hdl.handle.net/2152/19425 | Smilja Milovanovic-Bertram | Lincoln Center for the Performing Arts, after 2009 additions and renovations | Visual documentation of renovations to the Lincoln Center for the Performing Arts, designed 2004 by Diller Scofidio + Renfro with FXFOWLE. Completed 2009. Photographed by Smilja Milovanovic-Bertram, June 1, 2012. 59 digital image files (JPEG). |

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| Ensuring Access in Perpetuity to Sustainability Content Using The University of Texas Digital Repository | Elizabeth Schaub, Robert Carter |

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| UTDR UID | Creator(s) | Title | Description |
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| http://hdl.handle.net/2152/19616 | Robert Carter | Progress Report: Completion of Phase One | Report on materials collected, cataloged, and archived in the UT Digital Repository, covering the period of December 1, 2010, through February 9, 2012. (MS Word document, 1 file) |
| http://hdl.handle.net/2152/19617 | Robert Carter | Progress Report: Midway Through Phase Two | Report on materials collected, cataloged, and archived in the UT Digital Repository, covering the period of February 10, 2012, through August 31, 2012. (PDF document, 1 file) |
| http://hdl.handle.net/2152/19719 | Robert Carter | Final Report | Report on materials archived in the UT Digital Repository, covering September 1, 2012, through February 27, 2012. (PDF document, 1 file) |
| http://hdl.handle.net/2152/19720 | Robert Carter | Meadows Foundation Funded Projects – Collection Contents, 2/27/2013 | List of materials made available through the UT Digital Repository as of project completion, 2/27/2013 (PDF document, 1 file) |